

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-23 (*Canceled*):

24 (*Currently Amended*):     ~~An imaging apparatus having an imaging unit which forms an object image and generates an image by photoelectric conversion, a generator which generates a single image from the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium, said apparatus comprising:~~

an imaging unit, arranged to form an object image and generate an original image by a photoelectric conversion of the object image;

a detector, arranged to detect spatial frequency characteristics of a plurality of color components of the original image ~~obtained by the imaging unit~~;

a controller, arranged to designate [[the]] data format and control supply of [[an]] the original image to [[the]] a storage unit in correspondence with the detected spatial frequency characteristics of the plurality of color components of the original image; [[and]]

a shift unit, arranged to shift [[the]] an optical unit to shift pixels of the original image ~~obtained by the imaging unit thereby generating the plurality of secondary images~~ thereby generating a secondary image having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image; and [[,]]

a generator, arranged to generate a combined image by combining the original image with the secondary image.

wherein said shift unit changes a shift amount of the optical unit ~~pixels in each of the plurality of secondary images~~ in correspondence with a result of comparison between the spatial frequency characteristics of the plurality of color components of the original image detected by said detector.

25 (*Canceled*):

26 (*Currently Amended*): The apparatus according to claim 24, wherein said detector detects high-frequency components of the plurality of color components of the original image obtained by the imaging unit.

27-29 (*Canceled*):

30 (*Currently Amended*): An imaging method for an imaging apparatus having an imaging unit which forms an object image and generates an original image by a photoelectric conversion ~~of the object image, a generator which generates a single image from the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium~~, the method comprising the steps of:

detecting spatial frequency characteristics of a plurality of color components of the original image obtained by the imaging unit;

designating ~~[[the]]~~ data format and controlling supply of ~~[[an]]~~ the original image to ~~[[the]]~~ a storage unit in correspondence with the detected spatial frequency characteristics of the plurality of color components of the original image; and

shifting an optical unit for shifting ~~[[the]]~~ pixels of the original image ~~obtained by the imaging unit thereby generating the plurality of secondary images~~ thereby generating a

secondary image having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image; and [[,]]

generating a combined image by combining the original image with the secondary image,  
wherein said shifting step changes a shift amount of the optical unit pixels in each of the plurality of secondary images in correspondence with a result of comparison between the spatial frequency characteristics of the plurality of color components of the original image detected in said detecting step.

31 (*Currently Amended*): A computer program product stored on a computer readable medium comprising computer program code, for executing imaging processing of an imaging apparatus having an imaging unit which forms an object image and generates an original image by a photoelectric conversion of the object image, ~~a generator which generates a single image from the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium~~, the method comprising the steps of:

detecting spatial frequency characteristics of a plurality of color components of the original image obtained by the imaging unit;

designating [[the]] data format and controlling supply of [[an]] the original image to [[the]] a storage unit in correspondence with the detected spatial frequency characteristics of the plurality of color components of the original image; and

shifting an optical unit for shifting [[the]] pixels of the original image ~~obtained by the imaging unit thereby generating the plurality of secondary images~~ thereby generating a secondary image having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image; and [[,]]

generating a combined image by combining the original image with the secondary image,  
wherein said shifting step changes a shift amount of the optical unit ~~pixels in each of the~~  
~~plurality of secondary images~~ in correspondence with a result of comparison between the spatial  
frequency characteristics of the plurality of color components of the original image detected in  
said detecting step.

32-34 (*Canceled*):

35 (*Previously Presented*): The imaging apparatus according to claim 24, wherein each of  
pixels of the imaging unit corresponds to one of the plurality of color components in such a  
manner that resolutions of the pixels corresponding to the plurality of color components are not  
the same.

36 (*Previously Presented*): The imaging apparatus according to claim 35, wherein said shift  
unit sets the shift amount in accordance with the resolution of the pixels corresponding to a color  
component having a largest high-frequency component among the plurality of color components.

37 (*Currently Amended*): The imaging apparatus according to claim 24, further comprising a  
combining unit configured to combine the image obtained by the imaging unit and the ~~plurality~~  
~~of secondary images~~ secondary image thereby generating the ~~single~~ combined image.

38 (*Currently Amended*): The imaging method according to claim 30, further comprising  
combining the original image obtained by the imaging unit and the ~~plurality of secondary images~~  
secondary thereby generating the ~~single~~ combined image.

39 (*Currently Amended*): The computer program product according to claim 31, the method  
further comprising combining the image obtained by the imaging unit ~~[[and]]~~ with the ~~plurality~~  
~~of secondary images~~ secondary image thereby generating the ~~single~~ combined image.

40 (*New*): The imaging apparatus of claim 24, wherein the shift unit is configured to repeat the shifting of the optical unit for a plurality of times thereby generating a plurality of secondary images each having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image.

41 (*New*): The method of claim 30, further comprising repeating the shifting step for a plurality of times thereby generating a plurality of secondary images each having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image.

42 (*New*): The computer program product of claim 31, further comprising repeating the shifting step for a plurality of times thereby generating a plurality of secondary images each having pixels of the plurality of color components shifted from pixels of the plurality of color components of the original image.